

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/525,984  
Source: PCT  
Date Processed by STIC: 02/02/2006

# ***ENTERED***



PCT

RAW SEQUENCE LISTING                      DATE: 02/02/2006  
 PATENT APPLICATION: US/10/525,984        TIME: 11:39:50

Input Set : A:\VANM260.001APC SEQLIST as filed.txt  
 Output Set: N:\CRF4\02022006\J525984.raw

2 <110> APPLICANT: Jonniaux, Jean-Luc  
 3        Valepyn, Emmanuel  
 4        Corbisier, Anne-Marie  
 5        Dauvrin, Thierry  
 7 <120> TITLE OF INVENTION: MYROTHECIUM SP. TRANSFORMATION AND EXPRESSION SYSTEM  
 9 <130> FILE REFERENCE: VANM260.001APC  
 11 <140> CURRENT APPLICATION NUMBER: US 10/525,984  
 12 <141> CURRENT FILING DATE: 2005-02-25  
 14 <150> PRIOR APPLICATION NUMBER: PCT/BE03/00143  
 15 <151> PRIOR FILING DATE: 2003-08-29  
 17 <150> PRIOR APPLICATION NUMBER: US 60/404,843  
 W--> 18 <151> PRIOR FILING DATE: 2002-08-2002  
 20 <160> NUMBER OF SEQ ID NOS: 37  
 22 <170> SOFTWARE: PatentIn version 3.2  
 24 <210> SEQ ID NO: 1  
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 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial  
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 53 <213> ORGANISM: Artificial  
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 59 <400> SEQUENCE: 3  
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 63 <210> SEQ ID NO: 4  
 64 <211> LENGTH: 17  
 65 <212> TYPE: DNA  
 66 <213> ORGANISM: Artificial  
 68 <220> FEATURE:

CP2-6)

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79 <213> ORGANISM: Artificial
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89 <210> SEQ ID NO: 6
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91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: ITS4 primer
97 <400> SEQUENCE: 6
98 tcttccgctt attgatatgc 20
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101 <211> LENGTH: 1052
102 <212> TYPE: DNA
103 <213> ORGANISM: Myrothecium
105 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <223> OTHER INFORMATION: 28s rDNA sequence of the strain MUCL39210
110 <400> SEQUENCE: 7
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113 cccggcccga gttgtaattt gcagaggatg cttttggcga ggtgccttcc gagttccctg 120
114 gaacgggacg ccatagaggg tgagagcccc gtctggtcgg acaccgagcc tctgtaaagc 180
115 tccttcgacg agtcgagtag tttgggaatg ctgctcaaaa tgggaggtat atgtcttcta 240
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117 actttgaaaa gagagttaaa cagcacgtga aattgttaaa agggaagcgt ttatgaccag 360
118 acttggcccg gttgatcatc cagcgttctc gctggtgcac tctgccggtc caggccagca 420
119 tcagttcgtc gcgggggata aagggttcgg gaatgtggct cctccgggag tggtatagcc 480
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121 ggtcatcaac gaccctctct gaaacacgga ccaaggagtc gtcttcgtat gcgagtgttc 600
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124 aagggtgaact atgcctgtat aggggtgaagc cagaggaaac tctggtggag gctcgagcgc 780
125 gttctgacgt gcaaactgat cgtcaaatat gggcatgggg gcgaaaagact aatcgaaacct 840
126 tctagtagct ggtttccgcc gaagtttccc tcaggatagc agtgttgaac tcagttttat 900
127 gaggtaaagc gaatgattag ggactcgggg gcgctattta gccttcaccc attctcaaac 960
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129 ctagtgggcc atttttggtg agcagaactg gc 1052
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132 <211> LENGTH: 1040
133 <212> TYPE: DNA
134 <213> ORGANISM: Myrothecium

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138 <221> NAME/KEY: misc_feature
139 <223> OTHER INFORMATION: 28s rDNA sequence of the strain MUCL11831
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144 tagtcccgag ttgtaatttg cagaggatga ttttggcgcg gtgccttcca agttccctgg      120
145 gacgggacgc cggagagggt gagagccccg tcaggttga caccaagcct atgtaaatct      180
146 ccttcgacga gtcgagtagt ttgggaatgc tgctctaaat gggagggtata tgtcttctaa      240
147 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaag atgaaaagca      300
148 ctttgaaaag agagttaaac agcacgtgaa attgttataa ggaagcgtt tacgaccaga      360
149 cttgtgccgg ttgatcatcc agcgttctcg ctggtgcact ctgccggccc aggccagcat      420
150 cagttcgccg cgggggataa aggcgtcggg aatgtggctc ccccgggagt gttatagccc      480
151 ttcgcgcaat accctgaggg ggactgaggt tcgcgcattc gcaaggatgc tggcgtaatg      540
152 gtcgtcaacg acccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
153 ggtgtaaaac ccctacgcgt aatgaaagt aacgcagggt agagcttcgg cgcacatcgc      660
154 accgatcctg atgttctcgg atggatttga gtaagagcat acggggcccg acccgaaaga      720
155 aggtgaacta tgctgtata ggggtgaagc agaggaaact ctggtggagg ctgcgagcgg      780
156 ttctgacgtg caaatcgatc gtcaaataag ggcattgggg cgaaagacta atcgaaacct      840
157 ctagtagctg gtttcgcgg aagtttccct caggatagca gtgttgaact cagttttatg      900
158 atgtaaagcg aatgattagg gactcggggg cgctatttag cttcatcca ttctcaaact      960
159 ttaaataatgt aagaagccct tgttgcttaa ttgaacgtgg gcattcgaat gtatcaacac     1020
160 tagtgggcca tttttggtaa                                     1040
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163 <211> LENGTH: 1012
164 <212> TYPE: DNA
165 <213> ORGANISM: Myrothecium
167 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <223> OTHER INFORMATION: 28s rDNA sequence of the strain CBS449.71
172 <400> SEQUENCE: 9
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175 taggcccag ttgtaatttg cagaggatgc ttttggcaag gtgccttccg agttccctgg      120
176 aacgggacgc catagagggt gagagccccg tctggtcgga caccgagcct ctgtaaagct      180
177 ccttcgacga gtcgagtagt ttgggaatgc tgctcaaat gggagggtata tgtcttctaa      240
178 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaag atgaaaagca      300
179 ctttgaaaag agagttaaat agcacgtgaa attgttgaaa ggaagcgtt tatgaccaga      360
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181 cagttcgctc cgggggataa aggtttcggg aatgtagctc ctccgggagt gttatagccc      480
182 gttgcgtaat accctgcggt ggactgaggt ccgcgctctg caaggatgct ggcgtaatgg      540
183 tcatcaacga cccgtcttga aacacggacc aaggagtcgt cttcgtatgc gagtgttcgg      600
184 gtgtaaaacc cctacgcgta atgaaagtga acgcagggtg gagcttcggc gcatcatcga      660
185 ccgatacctga tgttctcgga tggatttgag taagagcata cggggccgga cccgaaagaa      720
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187 tctgacgtgc aaatcgatcg tcaaataatg gcattggggc gaaagactaa tcgaaccttc      840
188 tagtagctgg tttccgcca agttccctc aggatagcag tgttgaaact agttttatga      900
189 ggtaaagcga atgattaggg actcgggggc gctatttagc cttcatccat tctcaaactt      960
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192 <210> SEQ ID NO: 10
193 <211> LENGTH: 1038

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RAW SEQUENCE LISTING  
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194 <212> TYPE: DNA
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197 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <223> OTHER INFORMATION: 28s rDNA sequence of the strain IMI140595
202 <400> SEQUENCE: 10
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205 taggcccagag ttgtaatttg cagaggatgc ttttggcgag gtgccttccg agttccctgg      120
206 aacgggacgc catagagggt gagagccccg tctggtcgga caccgagcct ctgtaaagct      180
207 ccttcgacga gtcgagtagt ttgggaatgc tgctcaaaat gggaggtata tgtcttctaa      240
208 agctaaatac cggccagaga ccgatagcgc acaagtagag tgatcgaaaag atgaaaagca      300
209 ctttgaaaag agagttaaac agcacgtgaa attgttgaaa gggaagcgtt tatgaccaga      360
210 cttggcccgg ttgatcatcc agcgttctcg ctggtgcact ctgccggtcc aggccagcat      420
211 cagttcgccg cgggggataa aggtttcggg aatgtggctc ctccgggagt gttatagccc      480
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213 gtcatcaacg acccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
214 ggtgtaaaaa ccctacgcgt aatgaaagtg aacgcaggtg agagcttcgg cgcacatcgc      660
215 accgatcctg atgttctcgg atggatttga gtaagagcat acggggccgg acccgaaaaga      720
216 aggtgaacta tgcctgtata ggggtgaagcc agaggaaact ctggtggagg ctgcgacgag      780
217 ttctgacgtg caaatcgatc gtcaaatatg ggcattgggg cgaaagacta atcgaaacct      840
218 ctagtagctg gtttcgcgag aagtttcctt caggatagca gtgttgaact cagttttatg      900
219 aggtaaaagc aatgattagg gactcggggg cgctatttag ccttcattca ttctcaaaact      960
220 ttaaatatgt aagaagccct tgttacttag ttgaacgtgg gcattcgaat gtatcaaacac      1020
221 tagtgggcca tttttggg
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223 <210> SEQ ID NO: 11
224 <211> LENGTH: 1044
225 <212> TYPE: DNA
226 <213> ORGANISM: Myrothecium
228 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <223> OTHER INFORMATION: 28s rDNA sequence of the strain IMI29040
233 <400> SEQUENCE: 11
235 cagggattgc ctcagtaacg gcgagtgaag cggcaacagc tcaaatttga aatctggccc      60
236 cccggcccga gttgtaattt gcagaggatg cttttggcaa ggtgccttcc gagttccctg      120
237 gaacgggacg ccatagaggg tgagagcccc gtctggtcgg acaccgagcc tctgtaaagc      180
238 tccttcgacg agtcgagtag tttgggaatg ctgctcaaaa tgggaggtat atgtcttcta      240
239 aagctaaata ccggccagag accgatagcg cacaagtaga tgatcgaaa gatgaaaagc      300
240 actttgaaaa gagagttaaa tagcacgtga aattgttgaa agggaagcgt ttatgaccag      360
241 acttggcccg gttgatcatc cagcgttctc gctggtgcac tctgccggtc caggccagca      420
242 tcagttcgtc gcgggggata aaggcttcgg gaatgtagct ctcttcgggg agtggttatag      480
243 ccggttgtgt aataccctgc ggtggactga ggtccgcgct ctgcaaggat gctggcgtaa      540
244 ttggtcatcac gaccgtcttg aaacacggac caaggagtcg tcttcgtatg cgagtgttcg      600
245 ggtgtaaaaa ccctacgcgt aatgaaagtg aacgcaggtg agagcttcgg cgcacatcgc      660
246 accgatcctg atgttctcgg atggatttga gtaagagcat acggggccgg acccgaaaaga      720
247 aggtgaacta tgcctgtata ggggtgaagcc agaggaaact ctggtggagg ctgcgacgag      780
248 ttctgacgtg caaatcgatc gtcaaatatg ggcattgggg cgaaagacta atcgaaacct      840
249 ctagtagctg gtttcgcgag aagtttcctt caggatagca gtgttgaact cagttttatg      900
250 aggtaaaagc aatgattagg gactcggggg cgctatttag ccttcattca ttctcaaaact      960
251 ttaaatatgt aagaagccct tgttgcttaa ttgaacgtgg gcattcgaat gtatcaaacac      1020

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252 tagtgggcca tttttggtta gcag 1044
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 445
256 <212> TYPE: DNA
257 <213> ORGANISM: Myrothecium
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <223> OTHER INFORMATION: ITS sequence of the strain MUCL39210
263 <400> SEQUENCE: 12
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266 ctatgtttta ctgtacatct cctctgagtg acacataaac aataaataaa aacttttaac 120
267 aacggatctc ttggttctgg catcgatgaa gaacgcagcg aaatgcgata agtaatgtga 180
268 attgcagaat tcagtgaatc atcgaatctt tgaacgcaca ttgcgcccgc cagtattctg 240
269 gcgggcatgc ctgttcgagc gtcatttcaa ccctcaggcc cccagtgcct ggcgttgggg 300
270 atcggcacca gggcgteccg gcaagcggtc tccccgccg ccccgaaatc tagtggcggt 360
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272 ctgccgttaa acacccact tctga 445
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276 <212> TYPE: DNA
277 <213> ORGANISM: Myrothecium
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <223> OTHER INFORMATION: ITS sequence of the strain MUCL11831
283 <400> SEQUENCE: 13
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285 actcaatgtt tttcatgcag tattatctga gtggcaaacg caaaaaataa atcaaaactt 120
286 ttaacaacgg atctcttggc tctggcatcg atgaagaacg cagcgaaatg cgataagtaa 180
287 tgtgaattgc agaattcagt gaatcatcga atctttgaac gcacattgcg cccgcgagta 240
288 ttctcgcggg catgcctgtc cgagcgtcat ttcaaccctc agggcccgcg tgcttgagg 300
289 cgcgcgctg gtgttgggga tcggccctaa accgccgtcc cccaaattca gtggcggtct 360
290 cgctgcagcc tcccctgcgt agtagcaaca ctgcgatgcg gagcgcgggc cggccacgcc 420
291 gtaaaacccc cgactttctg aacgttgacc tcggatcag 459
293 <210> SEQ ID NO: 14
294 <211> LENGTH: 423
295 <212> TYPE: DNA
296 <213> ORGANISM: Myrothecium
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <223> OTHER INFORMATION: ITS sequence of the strain CBS449.71
302 <400> SEQUENCE: 14
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306 acaacggatc tcttggttct ggcacgatg aagaacgcag cgaaatgcga taagtaatgt 180
307 gaattgcaga attcagtga tcatcgaatc ttgaacgca cattgcgccc gccagtattc 240
308 tggcgggcat gcctgttcga gcgtcatttc aacctcagg ccccgagtgc ctggtgttgg 300
309 ggatcgcccc agccttctcg caaggccgcc gggcccgaaa tctagtggcg gtctcgctgt 360
310 agtcctctc tgcgtagtag cacaacctcg cagttggaac gcggcggtgg ccatgcggtt 420
311 aaa 423

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/02/2006  
PATENT APPLICATION: US/10/525,984      TIME: 11:39:51

Input Set : A:\VANM260.001APC SEQLIST as filed.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; N Pos. 3,12  
Seq#:21; N Pos. 12,18  
Seq#:22; N Pos. 18

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,17,18,19,20,21,22,28,29,30,31

**VERIFICATION SUMMARY**

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DATE: 02/02/2006

TIME: 11:39:51

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L:18 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0